

## Nu-Metrics Traffic Analyzer Study

### Computer Generated Summary Report City: 100' North from Speed Hump

Street: Oak St. # 19 Red

A study of vehicle traffic was conducted with HI-STAR unit number 6255. The study was done in the North Bound lane on Oak St. using counter # 19 Red as shown on attached drawing. The counter was placed 100 ft. north of the speed hump. The study began on 01/20/2004 at 04:00 PM and concluded on 01/23/2004 at 12:00 PM, lasting a total of 68 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 4,350 vehicles passed through the location with a peak volume of 242 on 01/23/2004 at 07:00 AM and a minimum volume of 0 on 01/21/2004 at 02:00 AM. The AADT Count for this study was 1,535.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	146	371	1148	1531	555	102	113

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 25 mph with 58.0 percent exceeding the posted speed of 25 mph. The HI-STAR found 5.42 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 31.58 mph.

#### CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
3794	116	43	10	3	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 3,910 which represents 98.60 percent of the total classified vehicles. The number of Small Trucks in the study was 43 which represents 1.10 percent of the total classified vehicles. The number of Trucks/Buses in the study was 10 which represents 0.30 percent of the total classified vehicles. The number of Tractor Trailers in the study was 3 which represents 0.10 percent of the total classified vehicles.

#### HEADWAY

During the peak time period, on 01/23/2004 at 07:00 AM the average headway between the vehicles was 14.81 seconds. The slowest traffic period was on 01/21/2004 at 02:00 AM. During this slowest

period, the average headway was 3600.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 23 and 46 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.